## Radar Scientist

riigiit ID <u>u</u>	Storm Karen Radar Scientist Macer
on his/her a	board radar scientist is responsible for data collection from all radar syst ssigned aircraft. Detailed operational procedures and checklists are contator's manual. General supplementary procedures follow. (Check off or init
Preflight	
1.	Determine status of equipment and report results to lead project scientist (LPS
	Confirm mission and pattern selection from the LPS.
3.	Select the operational mode for radar system(s) after consultation with the LF
4.	Complete the appropriate preflight check list.
In-Flight	
1.	Monitor the Tail Doppler Radar function regularly, using the realtime display, to make sure the Doppler radar is scanning and working normally.
<u></u>	Maintain the Doppler Wind Parameter form as well as a written commentar the Radar Event Log of event times, such as ending and restarting of recording. Also document any equipment problems or changes in R/T, INI signal status.
Post flight	
1.	Complete the summary checklist and all other appropriate forms.
2.	Download all Tail (TA) radar data files to thumb drive.
3.	Brief the LPS on equipment status and turn in completed forms and thumb do to the LPS.
4.	Debrief at the base of operations.
5.	Determine the status of future missions and notify HFP Director as to where

## **HRD Radar Scientist Check List**

Flight ID: 20131063 H1
Aircraft Number: NOAAY2
Radar Scientist: Hazelfon / Sellwood
Radar Technician: Bosko
Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):
Radar Computer
Lower Fuselage (LF) Antenna
Tail (TA) Antenna
Time correction between LF radar time and digital time:
TA Radar Parameters:
(Single/Dual) PRF 2/00 F/AST (Y/N) Rotation Rate RPM
Sweeps/File/ Record 2 <sup>nd</sup> Trip (Y/N) (Circle appropriate status)
Radar Post flight Summary
Significant down time:
Radar LF
Radar TA
Other Problems

To 1805

## **HRD Radar Event Log**

Radar Scientist August / Stand Radar Technician

(Include down time and times of when recording ended and was restarted)

Time (HHMMSS)	Event							
184200	Start rada							
194300	Start of leg 1							
200600	Center Fix 1							
202600	End leg 1, Begin Dounvind 1							
205545	End Downwind 1 Start Leg 2							
1123 15	conter Fix 2							
214800	End leg 2, Bigin Downwind 2							
220630	End Downwind 2, Start Leg 3							
223100	Center Fix 3							
225500	End Lig 3, Begin Downwind 3							
232800	End Downwind 3, Start Leg 4							
135100	contr Fix y							
241450	End leg 4							
012500	Rudar Ended							
	ahilisi a kanyaka direkta							

**Doppler Wind parameters** 

Flight ID:  Leg Start Time  HHMMSS	Leg End Time		Doppler flight-leg notes (for use in automatic QC and analysis)					Scientist: Sellwood/Hazelton			
		Storm I	Motion	Time	Center Fix  Latitude Longitude		Inbound	Outbound	Max Radius (km)	Horz. Res (km)	Sent
			Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track	Default = 245	Default = 5
194300	202600/	330	10	200600	23°13′	85°88	180°	180%	245	5	Y
205600	21/1800/	329	8	U1315	હ°ય'	88°34'	270°	768°			
210630	232800	330	X	223100	23°24'	38044	45°	47°	245	5	
232800	001450	316	9	235100	23°38	88°51'	134°	135°			
geski (											